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(54) GLOBULAR ALPHA-TYPE CALCIUM TERTIARY PHOSPHATE AND HYDRAULIC CALCIUM PHOSPHATE CEMENT COMPOSITION

(57)Abstract:

PURPOSE: To develop a hydraulic calcium phosphate cement composition having excellent characteristics by mixing calcium secondary phosphate or calcium primary phosphate into the globular  $\alpha$ -type calcium tertiary phosphate having specified grain diameter in a specified ratio.

CONSTITUTION: The powder of calcium secondary phosphate or calcium primary phosphate is mixed into the powder of the  $\alpha$ -type calcium tertiary phosphate contg. 20-100wt.% of the solid globular  $\alpha$ -type calcium tertiary phosphate and having  $\leq 150\mu\text{m}$  grain diameter and  $\geq 0.8$  average roundness so that the molar ratio of Ca to P is controlled to 1.40-1.495 to produce a hydraulic calcium phosphate cement composition as the medical or dental cement. The composition and water are mixed in 1.5:1 to 3:1 weight ratio, and a cement paste for the cement hardened body having excellent fluidity, workability and operability in mixing cement and strength is obtained.

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